

## Microphone coupon board based on the MP23AB01DH fully differential analog MEMS microphone

Data brief



### Description

The STEVAL-MKI139V5 daughterboard contains four MP23AB01DH analog MEMS microphones.

The coupon concept facilitates performance testing of ST MEMS microphones. It is possible to detach the single PCBs hosting each microphone.

### Features

- 4 x MP23AB01DH bottom port analog MEMS microphones
- Vsupply from 2.1 to 3.6 V
- 120 dB SPL acoustic overload point
- Omnidirectional sensitivity
- Frequency range 100 Hz - 10 kHz
- 64.5 dB of SNR
- Sensitivity -38 dBV  $\pm$  1 dBV
- THD < 0.5% @ 94 dB SPL, 1 kHz
- THD < 10% @ 130 dB SPL, 1 kHz
- RoHS compliant

# 1 Schematic diagrams

Figure 1: STEVAL-MKI139V5 coupon circuit schematic

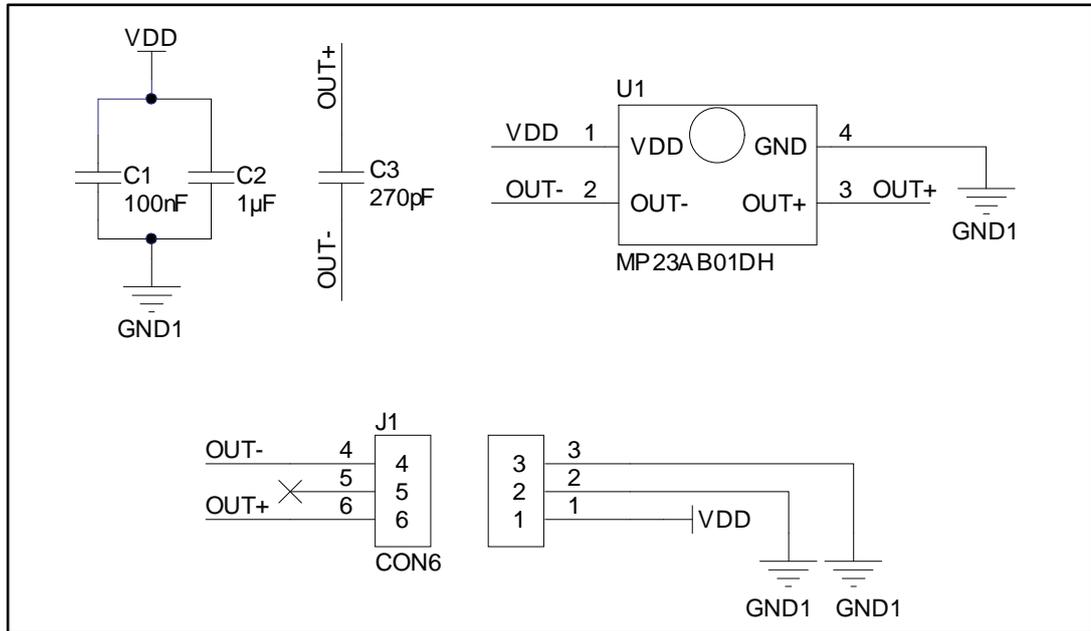
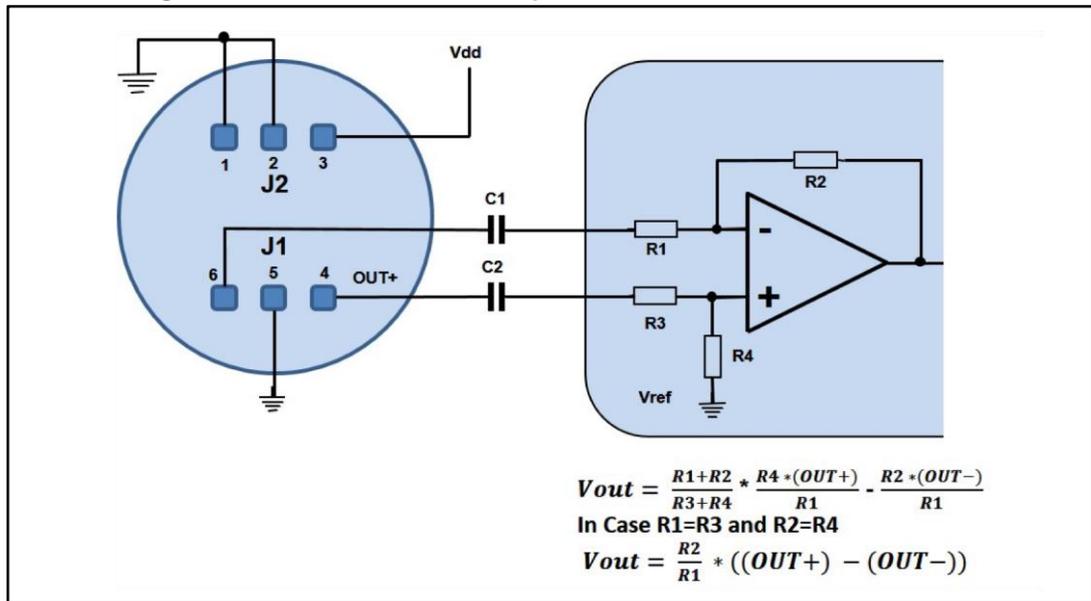


Figure 2: STEVAL-MKI139V5 example of external electrical connections



## 2 Revision history

Table 1: Document revision history

Date	Version	Changes
12-May-2017	1	Initial release.

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